

IN THE CLAIMS

1-37 (cancelled)

~~1~~ ~~38~~. (previously presented) A system for  
automatically positioning an antenna comprising:

a motor arranged to be coupled to the antenna;

and,

a controller coupled to the motor, wherein the  
controller is arranged to control the motor in response  
to selection of a channel so as to automatically drive  
the antenna to a position at which the antenna is aimed  
at a source of a signal associated with the selected  
channel, wherein the controller operates the motor to  
drive the antenna to the position based upon a location  
of the signal source and a location of the antenna,  
wherein the controller is arranged to receive the signal  
from the positioned antenna and to process the received  
signal so as to improve reception of the received signal,  
and wherein the processing of the received signal is  
dependent upon the position.

~~2~~ ~~39~~. (previously presented) The system of  
claim ~~38~~ wherein the controller stores a location of a  
known offending source, and where the controller  
processes the received signal by reducing reception of a

signal from the known offending source based upon the stored location of the known offending source.

<sup>3</sup>  
~~40~~. (previously presented) The system of  
<sup>2</sup>  
claim ~~39~~ wherein the antenna has a reception path between the antenna and the signal source, and wherein the controller blocks reception of the signal from the known offending source only if the known offending source is effectively in the reception path between the antenna and the signal source.

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<sup>4</sup>  
~~41~~. (previously presented) The system of  
<sup>2</sup>  
claim ~~39~~ wherein the controller includes an FM trap to notch out a signal from the known offending source.

<sup>5</sup>  
~~42~~. (previously presented) The system of  
<sup>1</sup>  
claim ~~38~~ wherein the controller includes a variable gain amplifier electrically coupled between the antenna and a receiver tuned to the channel selected by the user, wherein the controller processes the received signal by controlling the gain of the variable gain amplifier according to the location of the signal source so as to improve reception of the received signal.

<sup>6</sup>  
~~43~~. (previously presented) The system of  
claim <sup>1</sup>~~38~~ wherein the location of the antenna is supplied  
by a global position sensor.

<sup>7</sup>  
~~44~~. (previously presented) The system of  
claim <sup>1</sup>~~38~~ wherein the controller is arranged to operate  
the motor in response to a compass reading derived from a  
compass.

<sup>8</sup>  
~~45~~. (previously presented) The system of  
claim <sup>1</sup>~~38~~ wherein the controller is arranged to cancel  
ghosts depending upon the position of the antenna.

<sup>9</sup>  
~~46~~. (previously presented) The system of  
claim <sup>1</sup>~~38~~ wherein the antenna comprises first and second  
antennas, and wherein the controller is arranged to  
switch between the first and second antennas depending  
upon the channel selected by the user.

<sup>10</sup>  
~~47~~. (previously presented) The system of  
claim <sup>1</sup>~~38~~ wherein the location of the signal source and  
the location of the antenna are global locations.

<sup>13</sup>  
~~48~~. (previously presented) A method of  
automatically positioning an antenna having a motor  
coupled thereto comprising:

controlling the motor so as to drive the motor  
automatically in response to selection of a channel to a  
position at which the antenna is aimed at a source of a  
signal associated with the selected channel;

receiving a signal from the positioned antenna;  
and,

processing the received signal so as to improve  
reception of the received signal, wherein the processing  
of the received signal is dependent upon the position.

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<sup>14</sup>  
<sup>13</sup> ~~49~~. (previously presented) The method of  
claim ~~48~~ further comprising storing a location of a known  
offending source, wherein the processing of the received  
signal comprises reducing reception of a signal from the  
known offending source based upon the stored location of  
the known offending source.

<sup>14</sup> ~~50~~. (previously presented) The method of  
claim ~~49~~ wherein the antenna has a reception path between  
the antenna and the signal source, and wherein the  
reducing of reception of a signal from the known  
offending source comprises blocking reception of the

signal from the known offending source only if the known offending source is effectively in the reception path between the antenna and the signal source.

<sup>16</sup>  
~~51~~. (previously presented) The method of claim <sup>14</sup>~~48~~ wherein the reducing of reception of a signal from the known offending source comprises notching out a signal from the known offending source.

<sup>17</sup>  
~~52~~. (previously presented) The method of claim <sup>13</sup>~~48~~ wherein the processing of the received signal comprises controlling the gain of a variable gain amplifier according to the location of the signal source so as to improve reception of the received signal.

<sup>18</sup>  
~~53~~. (previously presented) The method of claim <sup>13</sup>~~48~~ further comprising supplying the location of the antenna by way of a global position sensor.

<sup>19</sup>  
~~54~~. (previously presented) The method of claim <sup>13</sup>~~48~~ wherein the controlling of the motor comprises driving the motor in response to a compass reading derived from a compass.

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<sup>20</sup>  
<sup>13</sup> ~~55.~~ (previously presented) The method of  
claim ~~48~~ further comprising canceling ghosts depending  
upon the position of the antenna.

<sup>21</sup>  
<sup>13</sup> ~~56.~~ (previously presented) The method of  
claim ~~48~~ wherein the antenna comprises first and second  
antennas, and wherein the method further comprises  
switching between the first and second antennas depending  
upon the channel selected by the user.

<sup>22</sup>  
<sup>13</sup> ~~57.~~ (previously presented) The method of  
claim ~~48~~ wherein the location of the signal source and  
the location of the antenna are global locations.

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<sup>11</sup> ~~58.~~ (new) The system of claim <sup>1</sup>~~38~~ wherein the  
controller includes an FM trap to notch out a signal from  
the known offending source, and wherein the controller  
processes the received signal by controlling FM trap  
according to the location of the signal source so as to  
improve reception of the received signal.

<sup>12</sup> <sup>1</sup>  
~~59.~~ (new) The system of claim ~~38~~ wherein the  
controller processes the received signal by controlling a  
circuit in a signal processing path so as to improve  
reception of the received signal.

<sup>23</sup>  
~~60~~. (new) The method of claim <sup>13</sup>~~48~~ wherein the  
processing of the received signal includes controlling an  
FM trap to notch out a signal from the known offending  
source according to the location of the signal source.

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<sup>24</sup>  
~~61~~. (new) The method of claim <sup>13</sup>~~48~~ wherein the  
processing of the received signal comprises controlling a  
circuit in a signal processing path so as to improve  
reception of the received signal.

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